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DE 19840771A1 pp. 116-117 residues 335-339

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6639063 SID: 5436 residues 24-28 6703491 SID: 61188 residues 107-111 6673910 SID: 3162 residues 208-212 6753314 SID: 1072 residues 335-339

NPL 102(b)

Chen M, Pan ZQ, Hurwitz J.

Studies of the cloned 37-kDa subunit of activator 1 (replication factor C) of HeLa cells.

Proc Natl Acad Sci U S A. 1992 Jun 15;89(12):5211-5.

Residues 335-339

Goodner et al. (2001) science 2323-2328

Residues 516-520

Proc Natl Acad Sci U S A. 1998 Mar 31;95(7):3786-91.

A third distinct tumor necrosis factor receptor of orthopoxviruses.

Loparev VN, Parsons JM, Knight JC, Panus JF, Ray CA, Buller RM, Pickup DJ, Esposito JJ.

Residues 65-69

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WO200299061A WO199937298A1

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Proc Natl Acad Sci U S A. 1992 Jun 15;89(12):5211-5. PMID: 1351677 [PubMed - indexed for MEDLINE]

2: Chen M. Pan ZO, Hurwitz J.

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Sequence and expression in Escherichia coli of the 40-kDa subunit of activator 1 (replication factor C) of HeLa cells. Proc Natl Acad Sci U S A. 1992 Apr 1;89(7):2516-20.

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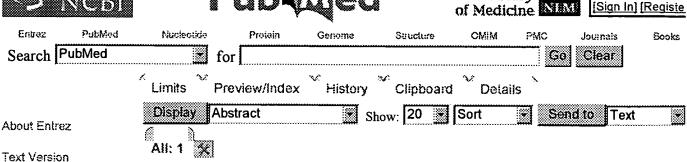
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Studies of the cloned 37-kDa subunit of activator 1 (replication factor C) of HeLa cells.

Chen M, Pan ZQ, Hurwitz J.

Graduate Program in Molecular Biology, Memorial Sloan-Kettering Cancer Center, New York, NY 10021.

The elongation of primed DNA templates by DNA polymerase delta and DNA polymerase epsilon requires the action of two accessory proteins, proliferating cell nuclear antigen and activator 1 (A1, also called replication factor C). A1 is an enzyme that contains five different subunits (145, 40, 38, 37, and 36.5 kDa). In this paper, we describe the isolation of the gene encoding the 37-kDa subunit from HeLa cells. This gene was cloned, sequenced, and overexpressed in Escherichia coli. The amino acid sequence shows a high degree of homology to the 40-kDa subunit of A1; they both contain the identical ATPbinding motif, but in contrast to the bacterial expressed 40-kDa protein, the 37-kDa expressed protein did not bind ATP. Both the 37- and 40-kDa proteins share substantial homology with the phage T4 gene 44 protein and to a lesser extent with the tau and gamma subunits of the E. coli DNA polymerase III holoenzyme. Polyclonal antibodies against the bacterially expressed 37- and 40-kDa proteins do not crossreact and are specific in their interaction. Antibodies against the 37-kDa protein maximally inhibited (by 50%) the A1dependent synthesis of DNA by DNA polymerase delta; antibodies against the 40-kDa protein quantitatively inhibited the same reaction. When A1dependent synthesis of DNA was partially inhibited by antibodies against the 40-kDa subunit, the addition of antibodies against the 37-kDa subunit inhibited DNA synthesis to a greater extent than the anti-37-kDa antibody alone. These results suggest that both the 37- and 40-kDa subunits of A1 are required for the biological role of A1 and that they may function differently in this process.

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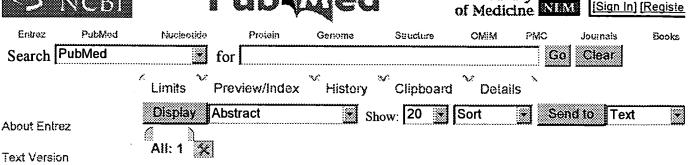
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A third distinct tumor necrosis factor receptor of orthopoxviruses.

Loparev VN, Parsons JM, Knight JC, Panus JF, Ray CA, Buller RM, Pickup DJ, Esposito JJ.

Poxvirus Section, Viral Exanthems and Herpesvirus Branch, Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, GA 30333, USA.

Cowpox virus Brighton red strain (CPV) contains a gene, crmD, which encodes a 320-aa tumor necrosis factor receptor (TNFR) of 44% and 22% identity, respectively, to the CPV TNFR-like proteins, cytokine response modifiers (crm) CrmB and CrmC. The crmD gene was interrupted in three other cowpox strains examined and absent in various other orthopoxviruses; however, four strains of ectromelia virus (ECT) examined contained an intact crmD (97% identity to CPV crmD) and lacked cognates of crmB and crmC. The protein, CrmD, contains a transport signal; a 151-aa cysteine-rich region with 21 cysteines that align with human TNFRII ligand-binding region cysteines; and C-terminal region sequences that are highly diverged from cellular TNFR C-terminal region sequences involved in signal transduction. Bacterial maltose-binding proteins containing the CPV or ECT CrmD cysteine-rich region bound TNF and lymphotoxin-alpha (LTalpha) and blocked their in vitro cytolytic activity. Secreted viral CrmD bound TNF and LTalpha and was detectable after the early stage of replication, using nonreducing conditions, as 60- to 70-kDa predominant and 90- to 250-kDa minor disulfide-linked complexes that were able to be reduced to a 46-kDa form and deglycosylated to a 38-kDa protein. Cells infected with CPV produced extremely low amounts of CrmD compared with ECT. Possessing up to three TNFRs, including CrmD, which is secreted as disulfide-linked complexes in varied amounts by CPV and ECT, likely enhances the dynamics of the immune modulating mechanisms of orthopoxviruses.

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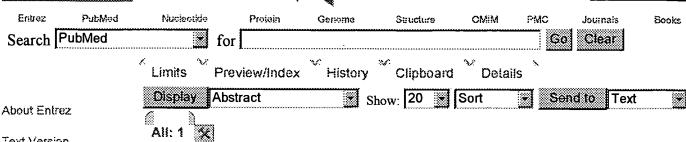
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The amino acid sequence of human chorionic gonadotropin. The alpha subunit and beta subunit.

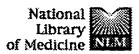
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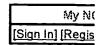
The amino acid sequences of both the alpha and beta subunits of human chorionic gonadotropin have been determined. The amino acid sequence of the alpha subunit is: Ala - Asp - Val - Gln - Asp - Cys - Pro - Glu - Cys-10 -Thr - Leu - Gln - Asp - Pro - Phe - Ser - Gln-20 - Pro - Gly - Ala - Pro - Ile -Leu - Gln - Cys - Met - Gly-30 - Cys - Cys - Phe - Ser - Arg - Ala - Tyr - Pro -Thr - Pro-40 - Leu - Arg - Ser - Lys - Lys - Thr - Met - Leu - Val - Gln-50 -Lys - Asn - Val - Thr - Ser - Glu - Ser - Thr - Cys - Cys-60 - Val - Ala - Lys -Ser - Thr - Asn - Arg - Val - Thr - Val-70 - Met - Gly - Gly - Phe - Lys - Val -Glu - Asn - His - Thr-80 - Ala - Cys - His - Cys - Ser - Thr - Cys - Tyr - Tyr -His-90 - Lys - Ser. Oligosaccharide side chains are attached at residues 52 and 78. In the preparations studied approximately 10 and 30% of the chains lack the initial 2 and 3 NH2-terminal residues, respectively. This sequence is almost identical with that of human luteinizing hormone (Sairam, M. R., Papkoff, H., and Li, C. H. (1972) Biochem. Biophys. Res. Commun. 48, 530-537). The amino acid sequence of the beta subunit is: Ser - Lys - Glu - Pro -Leu - Arg - Pro - Arg - Cys - Arg-10 - Pro - Ile - Asn - Ala - Thr - Leu - Ala -Val - Glu - Lys-20 - Glu - Gly - Cys - Pro - Val - Cys - Ile - Thr - Val - Asn-30 - Thr - Thr - Ile - Cys - Ala - Gly - Tyr - Cys - Pro - Thr-40 - Met - Thr -Arg - Val - Leu - Gln - Gly - Val - Leu - Pro-50 - Ala - Leu - Pro - Gin - Val -Val - Cys - Asn - Tyr - Arg-60 - Asp - Val - Arg - Phe - Glu - Ser - Ile - Arg -Leu - Pro-70 - Gly - Cys - Pro - Arg - Gly - Val - Asn - Pro - Val - Val-80 -Ser - Tyr - Ala - Val - Ala - Leu - Ser - Cys - Gln - Cys-90 - Ala - Leu - Cys -Arg - Arg - Ser - Thr - Thr - Asp - Cys-100 - Gly - Gly - Pro - Lys - Asp - His - Pro - Leu - Thr - Cys-110 - Asp - Asp - Pro - Arg - Phe - Gln - Asp - Ser -Ser - Ser - Ser - Lys - Ala - Pro - Pro - Pro - Ser - Leu - Pro - Ser-130 - Pro -Ser - Arg - Leu - Pro - Gly - Pro - Ser - Asp - Thr-140 - Pro - Ile - Leu - Pro -Gln. Oligosaccharide side chains are found at residues 13, 30, 121, 127, 132, and 138. The proteolytic enzyme, thrombin, which appears to cleave a limited number of arginyl bonds, proved helpful in the determination of the beta sequence.

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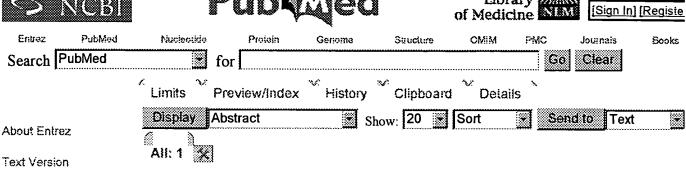
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Two monoclonal antibodies recognize Alzheimer's neurofibrillary tangles, neurofilament, and microtubule-associated proteins.

## Ksiezak-Reding H, Yen SH.

Two monoclonal antibodies that recognize Alzheimer's neurofibrillary tangles (ANTs), AD10 and AB18, have been characterized by immunoblotting against human and calf spinal cord neurofilament (NF) and calf brain microtubule preparations. Both antibodies bind to the 200-kilodalton (kd) (NF-H) and 160kd (NF-M) but not to the 68-kd (NF-L) NF triplet proteins. They also bind to high-molecular-weight microtubule-associated proteins (MAPs) and tau. AD10 immunostains MAP2 and MAP1 families, whereas AB18 stains mainly MAP1 bands. Preincubation of intact filament preparation or nitrocellulose strips containing electroblotted NF proteins with Escherichia coli alkaline phosphatase completely blocks AD10 binding and partially blocks binding of AB18. These results suggest that the determinants recognized by these antibodies are phosphorylated. Immunoblotting of peptide fragments generated by limited proteolysis of NF proteins with alpha-chymotrypsin and Staphylococcus aureus V8 protease shows that the localization of the antigenic determinants to AD10 and AB18 in NF-H is approximately 100 and 60 kd, respectively, away from the carboxy terminal, a region previously shown to form the NF projection side arm. In NF-M, the antigenic determinants to both antibodies are located also in the projection side arm, in a 60-kd polypeptide adjacent to the alpha-helical filament core. The results show that ANTs contain at least two phosphorylated antigenic sites that are present in NF and MAPs, a finding suggesting that ANTs may be composed of proteins or their fragments with epitopes shared by cytoskeletal proteins.

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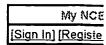
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Location of an epitope shared by Alzheimer's amyloid peptide and brain creatine kinase using a newly developed monoclonal antibody.

Cazorla P, Aldudo J, Haas C, Vazquez J, Valdivieso F, Bullido MJ.

Centro de Biologia Molecular Severo Ochoa (CSIC-UAM), Universidad Autonoma de Madrid, Spain.

Amyloid plaques, composed mainly by a peptide termed A4-amyloid, derived by proteolytic processing from the amyloid precursor protein (APP), are a hallmark in the brain of Alzheimer's disease patients. We have prepared a collection of monoclonal antibodies as tools to study APP expression and proteolysis in different systems. One of these, 5AH10, raised against residues 9-22 of A4-peptide, was selected for its ability to recognize only A4 subpeptides having the intact APP-secretase target sequence, as well as whole recombinant APP. By using synthetic subpeptides, we have located 5AH10 epitope between amino acids 15 and 22 of A4. In addition, 5AH10 showed a strong immunoreactivity to a 47 kDa protein present in rat brain extracts, that was identified as the B (brain specific) subunit of creatine kinase by immunochemical data and direct N-terminal sequencing. The cross-reaction observed is most probably due to a high degree of sequence identity between amino acids 15 to 22 of A4 peptide and amino acids 9 to 16 of rat B creatine kinase. 5AH10 did not recognize the muscle specific isoform (M subunit) of rat creatine kinase, nor the B subunit of human and rabbit creatine kinase, suggesting that glutamine at first position of the epitope is essential for antigen recognition by 5AH10.

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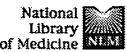
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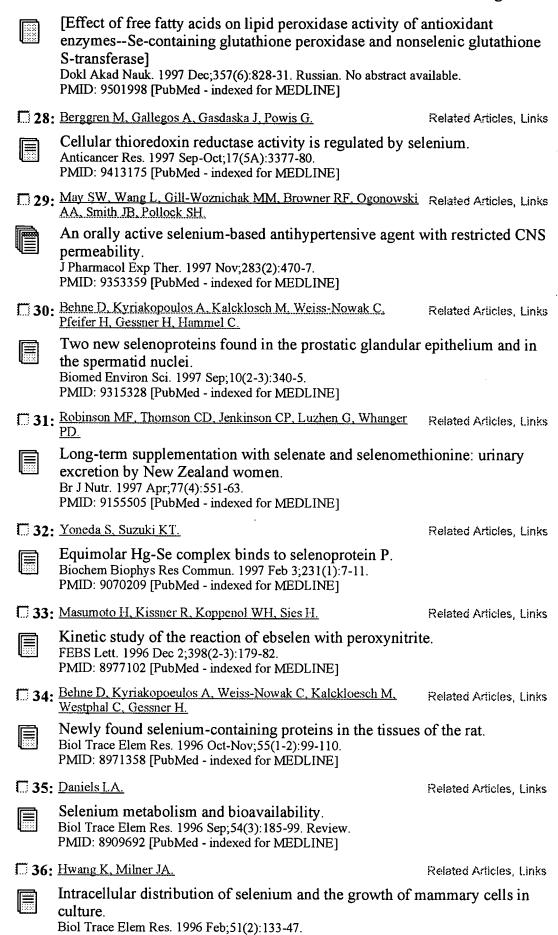
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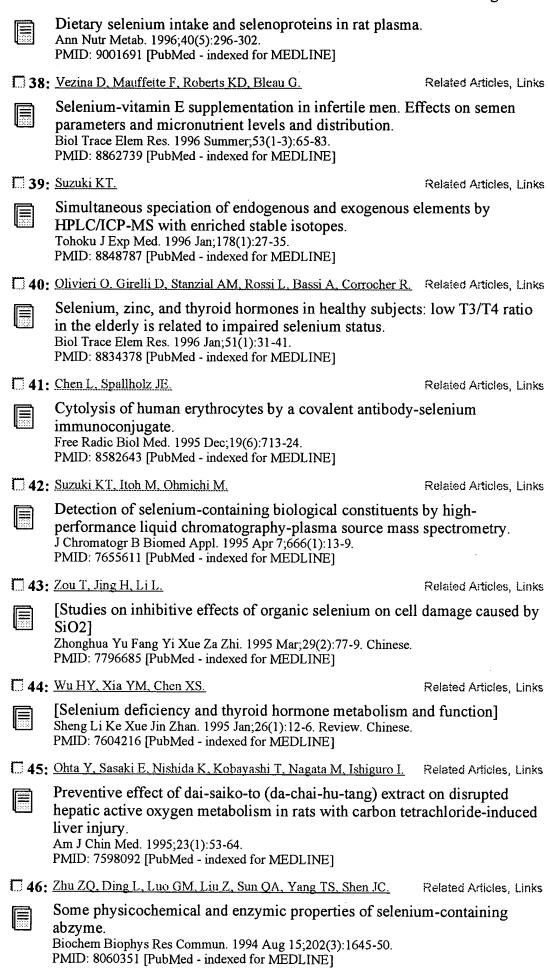
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       Utility; Patent Application - First Publication
FS
       CHEMICAL
       APPLICATION
CLMN
       18
GI
         17 Figure(s).
      FIG. 1 depicts the impaired cAMP signaling exhibited in shared
        epitope-expressing cells. FIG. 1A is a bar graph that shows PKA
        activation in different cell types, with or without forskolin
        stimulation. FIG. 1B shows PKA activation over time in different cells.
        FIG. 1C is a bar graph that shows relative PKA activation in different
       cells expressing different HLA DRB1 alleles.
      FIG. 2 depicts the experimental results confirming that inducible DNA repair signaling is transduced through a cAMPdependent pathway. FIG. 2A
       is a graph which shows DNA repair in the presence of different concentrations of 2CA. FIG. 2B is a graph that shows DNA repair in the
       presence of different concentrations of PGE1. FIG. 2C is a graph which
       shows DNA repair in the presence of different concentrations of
       forskolin. FIG. 2D is a graph that shows DNA repair in the presence of different concentrations of 8-Br-cAMP. FIG. 2E is a graph that shows DNA
       repair in the presence of different concentrations of enprofylline. FIG.
       2F is a graph that shows DNA repair in the presence of different
       concentrations of H-89. FIG. 2G is a graph that shows DNA repair in the
       presence of different concentrations of 8-Br-cGMP. FIG. 2H is a bar graph
      which shows DNA repair in the presence or absence of SNAP. FIG. 3 depicts the experimental results assessing the role of Gs
       protein-coupled receptors in the inducible DNA repair signaling. FIG. 3A shows DNA repair in HEK293/A2a transfectants in the presence of different concentrations of 2CA. FIG. 3B shows DNA repair in HEK293/A2b
       transfectants in the presence of different concentrations of 2CA. FIG. 3C
       is a bar graph that shows DNA repair in HEK293/A1 transfectants in the
       presence of different concentrations of 2CA and cAMP.
      FIG. 4 depicts the experimental results demonstrating that shared
       epitope-expressing DRB1 alleles have a direct inhibitory effect on
      cAMP-dependent signaling. FIG. 4A is a graph showing DNA repair over time in two transfected cell lines. FIG. 4B is a bar graph which shows DNA repair in different L cell transfectants.

FIG. 5 is a bar graph that depicts the experimental results demonstrating that shared epitope-containing peptides inhibit cAMP-mediated DNA repair.

FIG. 6 is a bar graph that depicts the experimental results demonstrating the inhibition of cAMP-mediated inducible DNA repair.
       the inhibition of camp-mediated inducible DNA repair by shared
       epitope-containing peptide-conjugated beads.
      FIG. 7 is an alignment that depicts shared epitope homologies in several
       proteins.
      FIG. 8 is a bar graph which depicts the inhibition of CAMPdependent DNA
       repair by shared epitope-containing, non DR beta proteins.
      FIG. 9 is a bar graph that depicts the results of experiments carried out
       to determine the shared epitope motif.
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FIG. 10 presents a characterization of shared epitope-triggered intracellular signaling. FIG. 10A shows cAMP levels in the presence of
 different concentrations of 2CA and after preincubation with different
 peptide-conjugated beads. FIG. 10B shows PKA activity following
 preincubation with different peptide-conjugated beads. FIG. 10C shows NO
 levels following preincubation with different peptide-conjugated beads.
FIG. 10D shows cGMP levels following exposure to different soluble
 peptides. FIG. 10E is a bar graph that shows DNA repair in cells exposed or not to L-NMA and different peptide-conjugated beads. FIG. 10F is a bar
 graph that shows DNA repair in cells preincubated or not with KT5823 and
 preincubated with different peptide-conjugated beads.
FIG. 11 shows the inhibition of CAMP signaling by shared epitope
 genetically inserted into foreign proteins. FIG. 11A shows the amino acid
 sequence of the recombinant HBc proteins containing residues 65-79 of DR
 beta *0401 and DR beta *0402. FIG. 11B is a bar graph which shows DNA
repair in M1 cells preincubated overnight with HBc*0401 or HBc*0404.
FIG. 12 depicts the neuroprotective effect of shared epitopecontaining peptides. FIG. 12A depicts NG108-15 cells after 24 hours of incubation
 with peptide 65-78*0402. FIG. 12B depicts NG108-15 cells after 24 hours of incubation with peptide 6578*0401. FIG. 12C is a bar graph that shows
 cell number and neurites in NG108-15 cells following exposure to
 different peptides.
FIGS. 13A-D presents data showing that shared epitope-containing peptides
 bind to and transduce signaling through the cell surface receptor
 calreticulin (Crt). FIG. 13A shows immunoblots of recombinant human
 calreticulin and HSP60 (eluted from peptide affinity chromatography)
 FIG. 13B shows surface plasmon resonance profiles. FIG. 13C shows that
 calreticulin anti-sense oligonucleotides suppress calreticulin surface
 expression. FIG. 13D shows that anti-calreticulin antibodies and
 anti-sense oligonucleotides block the cAMP-inhibitory effect of shared
epitope-containing peptides.
FIG. 14 ((SEQ ID NO: 29)) projects the amino acid sequence of the
 recombinantly produced calreticulin referenced in the instant
 application.
FIG. 15 depicts specific binding between recombinant calreticulin
 immobilized on a CM5 biosensor chip (Biacore) and shared epitope
 pentapeptides.
FIG. 16 shows competitive inhibition of shared epitopecalreticulin binding
                  ***DKCLA*** . FIG. 16A and FIG. 16B show that binding of
 by peptide
 14-mer, shared epitope-expressing peptides 65-78*0401 (FIG. 16A), and
 65-78*0404 (FIG. 16B) to calreticulin is inhibited by peptide

***DKCLA*** . FIG. 16C and FIG. 16D show dose-response analysis of the
inhibitory effect of ***DKCLA*** on calreticulin binding of 14-mer
 inhibitory effect of ***DKCLA*** on calreticulin binding of 14-mer peptides 65-78*0401 (FIG. 16C) and 65-78*0404 (FIG. 16D).
FIG. 17 shows that ***DKCLA*** blocks shared epitope-induced signaling in M1 cells incubated overnight with ***DKCLA*** and subsequently
FIG. 17 shows that
 stimulated with sepharose bead-coated peptide 65-79*0401 (hatched bars)
 or the control peptide, 65-79*0402 (open bars).
ANSWER 2 OF 3 IFIPAT COPYRIGHT 2005 IFI on STN DUPLICATE 2
 10728821 IFIPAT; IFIUDB; IFICDB
 METHODS AND COMPOSITIONS FOR THE TREATMENT OF DISEASES ASSOCIATED WITH
 SIGNAL TRANSDUCTION ABERRATIONS
Holoshitz Joseph; Ling Song
Michigan, University of (55176)
US 2004236071 A1 20041125
 us 2004-786774
                           20040225
 US 2002-161959
                           20020603 CONTINUATION
                                                                     PENDING
 US 2004236071
                           20041125
 Utility; Patent Application - First Publication
 CHEMICAL
 APPLICATION
  14 Figure(s).
      1 depicts the impaired cAMP signaling exhibited in SEexpressing
cells. FIG. 1A is a bar graph that shows PKA activation in different cell types, with or without forskolin stimulation. FIG. 1B shows PKA activation over time in different cells. FIG. 1C is a bar graph that shows relative PKA activation in different cells expressing different HLA
 DRB1 alleles.
FIG. 2 depicts the experimental results confirming that inducible DNA
 repair signaling is transduced through a cAMPdependent pathway. FIG. 2A
 is a graph which shows DNA repair in the presence of different
 concentrations of 2CA. FIG. 2B is a graph which shows DNA repair in the
 presence of different concentrations of PGE1. FIG. 2C is a graph which
 shows DNA repair in the presence of different concentrations of
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forskolin. FIG. 2D is a graph which shows DNA repair in the presence of
        different concentrations of 8-Br-cAMP. FIG. 2E is a graph which shows DNA
        repair in the presence of different concentrations of enprofylline. FIG.
        2F is a graph which shows DNA repair in the presence of different concentrations of H-89. FIG. 2G is a graph which shows DNA repair in the presence of different concentrations of 8-Br-cGMP. FIG. 2H is a bar graph
       which shows DNA repair in the presence or absence of SNAP.

FIG. 3 depicts the experimental results assessing the role of Gs
protein-coupled receptors in the inducible DNA repair signaling. FIG. 3A
shows DNA repair in HEK293/A2a transfectants in the presence of different
        concentrations of 2CA. FIG. 3B shows DNA repair in HEK293/A2b
        transfectants in the presence of different concentrations of 2CA. FIG. 3C
        is a bar graph that shows DNA repair in HEK293/A1 transfectants in the
        presence of different concentrations of 2CA and cAMP.
       FIG. 4 depicts the experimental results demonstrating that SEexpressing
        DRB1 alleles have a direct inhibitory effect on cAMPdependent signaling. FIG. 4A is a graph showing DNA repair over time in two transfected cell
        lines. FIG. 4B is a bar graph which shows DNA repair in different L cell
        transfectants.
       FIG. 5 is a bar graph which depicts the experimental results demonstrating
        that SE-containing peptides inhibit CAMP-mediated DNA repair.
       FIG. 6 is a bar graph which depicts the experimental results demonstrating
        the inhibition of CAMP-mediated inducible DNA repair by SE-containing
        peptide-conjugated beads.
       FIG. 7 is an alignment which depicts SE homologies in several proteins.
       FIG. 8 is a bar graph which depicts the inhibition of cAMPdependent DNA
       repair by SE-containing, non DR beta proteins.
FIG. 9 is a bar graph which depicts the results of experiments carried out
        to determine the SE motif.
       FIG. 10 presents a characterization of SE-triggered intracellular
        signaling. FIG. 10A shows cAMP levels in the presence of different
        concentrations of 2CA and after preincubation with different peptide-conjugated beads. FIG. 10B shows PKA activity following
        preincubation with different peptide-conjugated beads. FIG. 10C shows NO
        levels following preincubation with different peptide-conjugated beads.
        FIG. 10D shows cGMP levels following exposure to different soluble
        peptides. FIG. 10E is a bar graph that shows DNA repair in cells exposed
        or not to L-NMA and different peptide-conjugated beads. FIG. 10F is a bar
        graph that shows DNA repair in cells preincubated or not with KT5823 and preincubated with different peptide-conjugated beads.
       FIG. 11 shows the inhibition of cAMP signaling by SE genetically inserted into foreign proteins. FIG. 11A shows the amino acid sequence of the recombinant HBC proteins containing residues 6579 of DR beta *0401 and DR
        beta *0402. FIG. 11B is a bar graph which shows DNA repair in M1 cells
        preincubated overnight with HBC*0401 or HBC*0404.
      FIG. 12 depicts the neuroprotective effect of SE-containing peptides. FIG. 12A depicts NG108-15 cells after 24 hours of incubation with peptide
       65-78*0402. FIG. 12B depicts NG108-15 cells after 24 hours of incubation with peptide 65-78*0401. FIG. 12C is a bar graph that shows cell number and neurites in NG10815 cells following exposure to different peptides.
       FIGS. 13A-D presents data showing that SE-containing peptides bind to and
        transduce signaling through the cell surface receptor: calreticulin. FIG.
       13A shows immunoblots of recombinant human calreticulin and HSP60 (eluted from peptide affinity chromatography). FIG. 13B shows surface plasmon resonance profiles. FIG. 13C shows that calreticulin anti-sense oligonucleotides suppress calreticulin surface expressions. FIG. 13D shows
        that anti-calreticulin antibodies and anti-sense oligonucleotides block
        the cAMP-inhibitory effect of SEcontaining peptides.
      FIGS. 14 ((SEQ ID NO: 29)) projects the amino acid sequence of the
        recombinantly produced calreticulin referenced in the instant
        application.
      ANSWER 3 OF 3 USPATFULL on STN
         2003:140906 USPATFULL
         Methods and compositions for the treatment of diseases associated with
         signal transduction aberrations
         Holoshitz, Joseph, Ann Arbor, MI, UNITED STATES
         Ling, Song, Ann Arbor, MI, UNITED STATES
         The Regents Of The University Of Michigan (U.S. corporation)
         US 2003096748
                                         20030522
                                  Α1
         US 2002-161959
                                         20020603 (10)
                                   Α1
         US 2001-295691P
                                    20010604 (60)
         Utility
         APPLICATION
LN.CNT 2986
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INCL

INCLM: 514/012.000

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NCLS:
               530/359.000
IC
       [7]
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  25 FILES SEARCHED...
  30 FILES SEARCHED...
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  67 FILES SEARCHED...
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68 DUP REM L5 (19 DUPLICATES REMOVED)

=> S PRY<=2002 '2002' NOT A VALID FIELD CODE '2002' NOT A VALID FIELD CODE 3626920 PRY<=2002

=> S L5 AND L7 43 L5 AND L7 L8

=> D L6 1-68

ANSWER 1 OF 68 CAPLUS COPYRIGHT 2005 ACS on STN L6

2005:58062 CAPLUS AN

Calreticulin antagonist for the treatment of rheumatoid arthritis TI

IN

Holoshitz, Joseph; Ling, Song The Regents of the University of Michigan, USA PA

U.S. Pat. Appl. Publ., 84 pp., Cont.-in-part of U.S. Ser. No. 161,959. SO CODEN: USXXCO

DTPatent English LΑ FAN CNT

PAIN.	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PΙ	US 2005013820	<b>A</b> 1	20050120	US 2004-845407	20040513
	US 2003096748	<b>A</b> 1	20030522	US 2002-161959	20020603
	US 2004236071	A1	20041125	US 2004-786774	20040225
PRAI	US 2002-161959	A2	20020603		
	US 2001-295691P	P	20010604		

ANSWER 2 OF 68 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1 2005:5204 CAPLUS L6

AN

142:69949 DN

Nucleic acid molecules and encoded proteins associated with maize and TI their uses for plant improvement La Rosa, Thomas J.; Zhou, Yihua; Kovalic, David; Cao, Yongwei

IN

PA

U.S. Pat. Appl. Publ., 15 pp. SO CODEN: USXXCO

DT Patent LA English FAN.CNT 76

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A1
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2004172684 A1 20040902
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PRAI US 2000-684016
US 2001-850147
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       2004:663848 CAPLUS
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       141:186003
       Rice nucleic acid molecules and encoded proteins and their uses for plant
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       improvement
       La Rosa, Thomas J.; Kovalic, David K.; Zhou, Yihua; Cao, Yongwei; Wu, Wei;
IN
       Boukharov, Andrey A.; Barbazuk, Brad W.
PA
       USA
       U.S. Pat. Appl. Publ., 14 pp., Cont.-in-part of U.S. Ser. No. 837,604. CODEN: USXXCO
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LA English FAN.CNT 27
                                                       APPLICATION NO.
PATENT NO. KIND DATE

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       2004:260848 CAPLUS
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DN
      Soybean nucleic acids and encoded proteins associated with transcription in plants and their uses for plant improvement La Rosa, Thomas J.; Zhou, Yihua; Kovalic, David K.; Cao, Yongwei
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PA
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       U.S. Pat. Appl. Publ., 15 pp., Cont.-in-part of U.S. Ser. No. 985,678,
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       140:248277
       EST and contig sequences of Drosophila melanogaster and their uses in
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       microarrays, retrieval of full-length cDNAs and proteomic analysis, and
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for identification of pesticide targets
IN Homburger, Sheila Akiko; Ebens, Allen James, Jr.; Erickson, Catherine Sue;

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Ruddy, David Andrew; Buchman, Andrew Roy
       Exelixis, Inc., USA
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       U.S., 262 pp.
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       ANSWER 7 OF 68 CAPLUS COPYRIGHT 2005 ACS on STN
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       2004:467689 CAPLUS
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       Gene expression profile in activated human CD4+ T cells useful for the
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       diagnosis and treatment of immune-related diseases
       Clark, Hilary; Hunte, Bridsell; Jackman, Janet; Schoenfeld, Jill;
IN
       Williams, Mickey P.; Wood, William I.; Wu, Thomas D.; Bodary, Sarah
       Genentech, Inc., USA
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L6
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       141:22225
DN
       Gene expression profiles for activated natural killer cells and their use
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       for diagnosis and treatment of natural killer cell-related diseases
       Fong, Sherman; Dennis, Kathryn; Clark, Hilary; Chiu, Henry; Schoenfeld, Jill; Williams, P. Mickey; Wood, William I.; Wu, Thomas D.
IN
       Genentech, Inc., USA
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       PCT Int. Appl., 1731 pp.
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      Binary prediction tree modeling with many predictors and its uses in clinical and genomic applications
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      Nevins, Joseph R.; West, Mike; Huang, Andrew T.
IN
      Duke University, USA
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      PCT Int. Appl., 886 pp. CODEN: PIXXD2
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      Use of patterns of gene expression to identify tissue types and in disease
      diagnosis and prognosis
IN
      Glinskii, Guennadi V.
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      Sidney Kimmel Cancer Center, USA
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      140:88747
      Nucleic acid and amino acid sequences relating to Moraxella catarrhalis
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      for diagnostics and therapeutics
      Breton, Gary L.
Genome Therapeutics Corporation, USA
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      U.S., 429 pp.
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      2005:37944 CAPLUS
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      Genome sequence of the deep-sea .gamma.-proteobacterium Idiomarina
ΤI
      loihiensis reveals amino acid fermentation as a source of carbon and
      energy
      Hou, Shaobin; Saw, Jimmy H.; Lee, Kit Shan; Freitas, Tracey A.; Belisle,
ΑU
      Claude; Kawarabayasi, Yutaka; Donachie, Stuart P.; Pikina, Alla; Galperin, Michael Y.; Koonin, Eugene V.; Makarova, Kira S.; Omelchenko, Marina V.; Sorokin, Alexander; Wolf, Yuri I.; Li, Qing X.; Keum, Young Soo; Campbell, Sonia; Denery, Judith; Aizawa, Shin-Ichi; Shibata, Satoshi; Malahoff,
      Alexander; Alam, Magsudul
Department of Microbiology, University of Hawaii, Honolulu, HI, 96822,
Proceedings of the National Academy of Sciences of the United States of
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SO
      America (2004), 101(52), 18036-18041
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      Identification of 315 genes essential for early zebrafish development
      Amsterdam, Adam; Nissen, Robert M.; Sun, Zhaoxia; Swindell, Eric C.;
AU
      Farrington, Sarah; Hopkins, Nancy
      Center for Cancer Research and Department of Biology, Massachusetts
CS
      Institute of Technology, Cambridge, MA, 02139, USA
Proceedings of the National Academy of Sciences of the United States of
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      2004:979670 CAPLUS
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      The status, quality, and expansion of the NIH full-length cDNA project:
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Gerhard, Daniela S.; Wagner, Lukas; Feingold, Elise A.; Shenmen, Carolyn M.; Grouse, Lynette H.; Schuler, Greg; Klein, Steven L.; Old, Susan; Rasooly, Rebekah; Good, Peter; Guyer, Mark; Peck, Allicon M.; Derge, Jeffery G.; Lipman, David; Collins, Francis S.
AU
         The MGC Project Team, NIH, USA
CS
         Genome Research (2004), 14(10b), 2121-2127
SO
         CODEN: GEREFS; ISSN: 1088-9051
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         Cold Spring Harbor Laboratory Press
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         ANSWER 15 OF 68 CAPLUS COPYRIGHT 2005 ACS on STN
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         141:400167
         Reverse Methanogenesis: Testing the Hypothesis with Environmental Genomics
TI.
        Hallam, Steven J.; Putnam, Nik; Preston, Christina M.; Detter, John C.; Rokhsar, Daniel; Richardson, Paul M.; DeLong, Edward F.
AU
         Monterey Bay Aquarium Research Institute, Moss Landing,
                                                                                                           CA, 95064, USA
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        Science (Washington, DC, United States) (2004), 305(5689), 1457-1462 CODEN: SCIEAS; ISSN: 0036-8075
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         American Association for the Advancement of Science
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         The sirodesmin biosynthetic gene cluster of the plant pathogenic fungus
TI
         Leptosphaeria maculans
        Gardiner, Donald M.; Cozijnsen, Anton J.; Wilson, Leanne M.; Pedras, M. Soledade C.; Howlett, Barbara J. School of Botany, University of Melbourne, 3010, Australia Molecular Microbiology (2004), 53(5), 1307-1318 CODEN: MOMIEE; ISSN: 0950-382X Blackwell Publishing Ltd.
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          Zlokovic, Berislav V.
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      Tang, Y. Tom; Yang, Yonghong; Wang, Zhiwei; Weng, Gezhi; Ma, Yunqing
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       with protein tyrosine kinases and/or protein tyrosine kinase pathways in drug-sensitive and drug-resistant colon cells
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Bristol-Myers Squibb Company, USA

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      improved traits
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       Fermentation & Biotechnology Laboratories, Ajinomoto Co., Inc., Kanagawa,
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       210-8681, Japan
       Genome Research (2003), 13(7), 1572-1579
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       Laboratoire de Genomique des Microorganismes Pathogenes, Institut Pasteur,
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       Paris, 75724, Fr.
       Nature Biotechnology (2003), 21(11), 1307-1313
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       Satoshi
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       Kitasato Institute for Life Sciences, Kitasato University, Kanagawa,
       228-8555, Japan
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      PCT Int. Appl., 97 pp.
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      Olek, Alexander; Piepenbrock, Christian; Berlin, Kurt
      Epigenomics Ag, Germany PCT Int. Appl., 113 pp.
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Omura, Satoshi; Ikeda, Jaruo; Ishikawa, Jun; Horikawa, Hiroshi; Shiba,
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        The Kitasato Institute, Japan; National Institute of Technology and
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      135:267193
      Peptide sequences comprising one or several protein binding units of the Ena/VASP family, and uses thereof
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      Fradelizi, Julie; Friederich, Evelyne; Golsteyn, Roy M.; Louvard, Daniel; Noireaux, Vincent; Sykes, Cecile
Centre National de la Recherche Scientifique, Fr.; Institut Curie
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      PCT Int. Appl., 109 pp.
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      Human reproductive tract-specific nucleic acids and their encoded proteins
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      and antibodies
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      Rosen, Craig A.; Barash, Steven C.; Ruben, Steven M.
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      Human Genome Sciences, Inc., USA
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      PCT Int. Appl., 1297 pp.
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      WASP family protein fragments, and use thereof
Noireaux, Vincent; Prost, Jacques; Sykes, Cecile; Friederich, Evelyne;
Golsteyn, Roy M.; Louvard, Daniel
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      Centre National de la Recherche Scientifique, Fr.; Institut Curie
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SO
      PCT Int. Appl., 161 pp.
      CODEN: PIXXD2
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      Expressed sequence tags and encoded human proteins
      Dumas, Milne Edwards Jean-Baptiste; Jobert, Severin; Giordano, Jean-Yves
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         having intact 5' ends and their encoded secreted proteins
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May, Barbara J.; Zhang, Qing; Li, Ling Ling; Paustian, Michael L.;
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Department of Veterinary Pathobiology, University of Minnesota, St. Paul,
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Department of Biology, Hiram College, Hiram, OH, 44234, USA
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      Cloning of microtubule-associated protein TPX2 cDNA and its therapeutic
     Europaisches Laboratorium Fur Molekularbiologie (Embl), Germany
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       Borrelia polynucleotides and antigenic polypeptides for use as Lyme
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        disease vaccines and diagnostics
       Choi, Gil H.; Erwin, Alice L.; Hanson, Mark S.; Lathigra, Raju Human Genome Sciences, Inc., USA; Medimmune, Inc.
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        PCT Int. Appl., 275 pp.
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        A third distinct tumor necrosis factor receptor of orthopoxviruses
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        Loparev, Vladimir N.; Parsons, Joseph M.; Knight, Janice C.; Panus, Joanne Fanelli; Ray, Caroline A.; Buller, R. Mark L.; Pickup, David J.; Esposito,
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        Poxvirus Section, Viral Exanthems and Herpesvirus Branch, National Center for Infectious Diseases, Centers for Disease Control and Prevention, Division of Viral and Rickettsial Diseases, Atlanta, GA, 30333, USA
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Cotton, Matthew D.; Horst, Kurt; Roberts, Kevin; Hatch, Bonnie; Smith,
      Hamilton O.; Venter, J. Craig
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      Nature (London) (1997), 390(6660), 580-586
CODEN: NATUAS; ISSN: 0028-0836
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      Characterization of the locus encoding the [Ni-Fe] sulfhydrogenase from
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      the archaeon Pyrococcus furiosus: evidence for a relationship to bacterial sulfite reductases
      Pedroni, Paola; Della Volpe, Anna; Galli, Giuliano; Mura, Giovanni M.;
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      pratesi, Claudio; Grandi, Guido
      Genetic Eng. and Microbiol Lab., ENIRICERCHE S.p.A., Donato Milanese,
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      20097, Italy
      Microbiology (Reading, United Kingdom) (1995), 141(2), 449-58 CODEN: MROBEO; ISSN: 1350-0872
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      Studies of the cloned 37-kDa subunit of activator 1 (replication factor C)
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      of HeLa cells
      Chen, Mei; Pan, Z. Q.; Hurwitz, Jerard
Grad. Program Mol. Biol., Mem. Sloan-Kettering Cancer Cent., New York, NY,
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CODEN: PNASA6; ISSN: 0027-8424
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      USA
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     Calreticulin antagonist for the treatment of rheumatoid arthritis
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     Holoshitz, Joseph; Ling, Song
The Regents of the University of Michigan, USA
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     U.S. Pat. Appl. Publ., 84 pp., Cont.-in-part of U.S. Ser. No. 161,959.
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     Sorghum nucleic acids and encoded proteins and their uses improvement of
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     Kovalic, David K.; Zhou, Yihua; Cao, Yongwei
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     Kovalic, David K.; Zhou, Yihua; Cao, Yongwei
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     Kovalic, David K.; Zhou, Yihua; Cao, Yongwei
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     Rice nucleic acid molecules and encoded proteins and their uses for plant
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     La Rosa, Thomas J.; Kovalic, David K.; Zhou, Yihua; Cao, Yongwei; Wu, Wei; Boukharov, Andrey A.; Barbazuk, Brad W.
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TI Rice nucleic acid molecules and encoded proteins and their uses for plant improvement

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      Gene expression profile in activated human CD4+ T cells useful for the
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      diagnosis and treatment of immune-related diseases
      Clark, Hilary; Hunte, Bridsell; Jackman, Janet; Schoenfeld, Jill;
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      Williams, Mickey P.; Wood, William I.; Wu, Thomas D.; Bodary, Sarah
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      Binary prediction tree modeling with many predictors and its uses in
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      Nevins, Joseph R.; West, Mike; Huang, Andrew T.
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     Tang, Y. Tom; Yang, Yonghong; Wang, Zhiwei; Weng, Gezhi; Ma, Yunqing Hyseq, Inc., USA; Nuvelo Inc. PCT Int. Appl., 571 pp.
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      Expressed sequence tags from cDNA libraries derived from human mRNAs
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      having intact 5' ends and their encoded secreted proteins
      Tanaka, Hiroaki; Dumas Milne, Edwards Jean-Baptiste; Giordano, Jean-Yves;
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      Jobert, Severin; Bejanin, Stephane
Genset, Fr.
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       Omura, Satoshi; Ikeda, Jaruo; Ishikawa, Jun; Horikawa, Hiroshi; Shiba, Tadayoshi; Sakaki, Yoshiyuki; Hattori, Masahira
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       The Kitasato Institute, Japan; National Institute of Technology and
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       with protein tyrosine kinases and/or protein tyrosine kinase pathways in drug-sensitive and drug-resistant colon cells Huang, Fei; Fairchild, Craig R.; Lee, Francis Y.; Shaw, Peter Bristol-Myers Squibb Company, USA
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       Woolf, Clifford; D'Urso, Donatella; Befort, Katia; Costigan, Michael
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       The General Hospital Corporation, USA; Bayer AG PCT Int. Appl., 1017 pp.
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     Genes that are differentially expressed during erythropoiesis and their
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     diagnostic and therapeutic uses
     Brissette, William H.; Neote, Kuldeep S.; Zagouras, Panayiotis; Zenke,
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     Martin; Lemke, Britt; Hacker, Christine
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      Golub, Todd; Meyerson, Matthew; Bhattacharjee, Arindham; Staunton, Jane
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      Whitehead Institute for Biomedical Research, USA
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TI
        other diseases associated with signal transduction aberrations
       Holoshitz, Joseph; Ling, Song
The Regents of the University of Michigan, USA
PCT Int. Appl., 97 pp.
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        Duchaud, Eric; Taorit, Sead; Glaser, Philippe; Frangeul, Lionel; Kunst, Frederik; Danchin, Antoine; Buchrieser, Carmen
Institut Pasteur, Fr.; Centre National De La Recherche Scientifique
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      Wang, Liangus; Zamudio, Carlos; Malone, Cheryl; Haselbeck, Robert; Ohlsen, Kari L.; Zyskind, Judith W.; Wall, Daniel; Trawick, John D.; Carr, Grant
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      Olek, Alexander; Piepenbrock, Christian; Berlin, Kurt
Epigenomics Ag, Germany
PCT Int. Appl., 113 pp.
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Reagents and kits, such as nucleic acid arrays, for detecting the expression of over 10,000 Drosophila genes
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      Venter, J. Craig; Adams, Mark; Li, Peter W. D.; Myers, Eugene W.
      PE Corporation (NY), USA
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      PCT Int. Appl., 21 pp.
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      Reagents and kits, such as nucleic acid arrays, for detecting the
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      expression of over 10,000 Drosophila genes
      Venter, J. Craig; Adams, Mark; Li, Peter W. D.; Myers, Eugene W. PE Corporation (NY), USA PCT Int. Appl., 21 pp.
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       Chenchik, Alex; Lukashev, Matvey E.
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       Clontech, USA
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       U.S. Pat. Appl. Publ., 57 pp., Cont.-in-part of U.S. Ser. No. 441,920.
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        Ena/VASP family, and uses thereof
       Fradelizi, Julie; Friederich, Evelyne; Golsteyn, Roy M.; Louvard, Daniel; Noireaux, Vincent; Sykes, Cecile
Centre National de la Recherche Scientifique, Fr.; Institut Curie
PCT Int. Appl., 109 pp.
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       WASP family protein fragments, and use thereof
Noireaux, Vincent; Prost, Jacques; Sykes, Cecile; Friederich, Evelyne;
Golsteyn, Roy M.; Louvard, Daniel
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      Dumas, Milne Edwards Jean-Baptiste; Jobert, Severin; Giordano, Jean-Yves
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